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CITY OF



BOSTON.

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ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS,

For the Year 1881.

DEPARTMENT FOR THE SURVEY AND INSPECTION OF BUILDINGS.

Office of the Inspector of Buildings, City Hall, January 1, 1882.

To the Honorable the City Council of the City of Boston: —

Gentlemen, — In compliance with the provisions of Section 7 of Chapter 280 of the Laws of 1871, I have the honor to submit for your consideration a detailed report of the operations of this department for the year ending December 31, 1881.

The department has been one of increased activity the past year, as will be seen by examination of the records.

The aim is to have the records (which, by statute, are to be kept in detail) so kept that they may be of universal benefit to the public, a complete and bound transcript being made of each and every building, from the time of its erection to its completion; and, if altered, or damaged by fire or otherwise, the same is duly recorded, and readily referred to, being indexed and compiled; besides which, a diagram of each new building, locating drains, furnaces, etc., is filed with each final report, which contains an estimated cost of erection, alteration, addition, or damage.

The work of the department has been increased to a great extent, by the action of the Legislature of 1880, relating to

manufactories and buildings where operatives are employed. Chap. 197 of the Acts of 1880 requires two means of egress, by stairs, from all such buildings where five or more persons are employed in any room above the second story, or where women or children are employed above such a story. In order to ascertain whether any such buildings exist in violation of said chapter and acts, an examination and description and diagram are requisite before action is taken, so that better means of egress may be afforded, or a fire-escape located in the best possible position for escape in case of fire or panic.

The inspection of elevators and hoist-ways in all buildings in the city requires the attention of this department; accidents, serious and fatal, occurring often, further legislation is needed in this matter to control their construction and

use.

The detailed workings of this department may be readily learned by examination of the accompanying report and tables.

Very respectfully, I am your obedient servant,

JOHN S. DAMRELL, Inspector of Buildings.

Under the provisions of the statutes relating to buildings in the City of Boston, and under the provisions of the city ordinances relating to buildings, the department has supervision over the following matters:

The erection of brick, stone, and iron buildings, under statute provisions, throughout the entire city limits.

The erection of wooden or frame buildings of limited dimensions and range, outside of the building limits, under the provision of the city ordinance.

Additions, alterations, and repairs upon all classes of buildings, with especial reference to their compliance with

the present requirements of the building law.

The inspection of unsafe buildings and structures, with full power to require the securing or removal of the same, and in cases of immediate danger, where the security of the public is imperilled in life and limb, authority to enter upon, secure, or take down the same, as the exigencies of the public safety, in the opinion of the Inspector, may require.

The examination of buildings damaged by fire or accident, with authority to enter upon the premises and investigate

the origin of fires.

The inspection of buildings liable to take fire from unsafe

flues and heating apparatus.

The supervision and the protection of the building limits; the district in which the erection of independent wooden buildings is prohibited by statute law, with a limitation as to wharves.

Special authority invested in the Inspector of Buildings to issue permits for wooden and frame sheds, for special purposes, at his discretion, upon wharves situated within

the building limits of the city.

The examination for the approval of plans of proposed tenement-houses, public and family hotels, with reference to their compliances with special statute provisions, regulating area for light and ventilation, material of construction, water-closets, drainage, cesspools, height of habitable rooms, window openings, hall-ways, construction of stair-ways, fire-escapes, and the height of the building as regulated by the width of the street upon which they are proposed to be erected.

The enforcement of statutory provisions requiring fireescapes upon certain buildings in which operatives are employed, in factories, mills, or manufactories, tene-

ment-houses, and hotels, etc.

Authority invested in the Inspector of Buildings, under the act relating to means of egress from buildings occupied for public purposes, to regulate the entrances, doorways, passage-ways, their width, construction, and number, and obstructions that may be placed therein, the arrangement of the seatings, and the use of combustible materials, draperies, scenery, properties, etc.

The inspection of all hoist-way and elevator openings in buildings, with reference to their construction in conformity with the requirements of statute law and their

use.

Compliance with the requisitions of the Board of Health.

The setting of steam-engines and boilers.

The building of furnaces for melting iron, glass, or other metals.

The building of ovens, kilns, etc.

The setting of heating apparatus in all classes of buildings.

The examination of the grade of cellar bottoms of buildings built upon filled land; reporting violations of the same to the Board of Aldermen.

The storage of combustible material in buildings occupied in whole or in part as dwellings, situated within the building limits of the city.

Buildings authorized by the Board of Aldermen to be used

for stables are licensed to be occupied for this purpose, under the direction of the Inspector of Buildings.

The examination of buildings, with reference to their being provided with ample and sufficient means of egress, and their compliance with statute requirements, upon petition for license to occupy the same as a place of public amusement.

Examination of private signs located in the public highways, upon a petition to the Board of Aldermen to maintain the same, if secured satisfactory to the Inspector of

Buildings.

Authority to apply to the Supreme Judicial Court for an injunction restraining the construction of windows, steps, and porches, projecting into or over any public highway.

The department the past year has been one of constant activity, and the office has been used largely as a consultation bureau by our capitalists, architects, and master-builders,

in order that the law should be fully met.

Examinations of buildings, structures, etc., have to be made in all cases previous to issuing requisitions, permits, or notices; a diagram, and full description recorded of same; then examinations during their construction or alteration; a third examination, at its completion, as the final report, with the costs and facts in the case.

The following shows the operations of the department in detail:—

THE OPERATIONS OF THE DEPARTMENT.

The number of brick, stone, and iron build-	
ings for which permits have been issued	
during the year	308
The number of wooden buildings for which	
permits have been issued during the year .	787
The number of sheds situated upon wharves	
within the building limits of the city for	
which permits have been issued	13
The number of buildings for which permits	
have been issued to have additions built to	
them, or to have alterations and repairs	
made upon them	2,485
The number of steam-boilers, engines, etc.,	
for which permits have been issued to set .	252
The number of ovens, ranges, etc., for which	
permits have been issued to build	31
•	

35

ratus in an unsafe condition

The number of reports made on boilers, fur-	
naces, etc., in an unsafe condition	3
The number of reports made on buildings	
damaged by fire or accident	503
The number of reports made for sundry	
_	312
purposes	498
	400
The number of notices issued on unsafe build-	114
ings, walls, etc.	114
The number of notices issued on dangerous	
chimneys	264
The number of notices issued on insufficient	
egress and fire-escapes	119
The number of notices issued on boilers, fur-	
naces, etc., in an unsafe condition	24
The number of notices issued on stables, with	
reference to license of same	4
The number of miscellaneous notices issued .	399
	000
The number of buildings, walls, etc., in an	179
unsafe condition recorded	113
The number of chimneys in an unsafe and dan-	20.4
gerous condition recorded	304
The number of defective flues recorded	6
The number of heating apparatus in an unsafe	
condition recorded	46
The number of violations recorded	1,872
The number of requisitions issued for better	
means of egress from buildings. (Special)	295
The number of notices issued for better means	
of egress from buildings. (General)	284
The number of cases referred to the City So-	-01
licitor	22
	_ 2 2
The number of brick buildings completed, and	
upon which final reports have been ren-	100
dered	103
The number of wooden buildings completed,	
and upon which final reports have been	222
rendered	300
The number of buildings upon which repairs,	
alterations, and additions have been com-	•
pleted during the year	1,957
The number of steam-boilers, engines, etc.,	
set, and furnaces, ovens, ranges, etc., built,	340
The number of heating apparatus set	378
The number of fire-escapes completed during	
the year	108
UIAO Y OUR + + + + + + + + + + + + + + + + + + +	

Estimated cost of complete	d brick l	buildings n and fra	s . \$1	1,521,852	
66 66	buil	dings ons, alte	•	686,643	
		s, and		935,765	
	steam-bo	oilers,	en- ur-	,	
	ovens, r			315,233	
" setting h			•	65,032	
" securing			gs,		
etc.		•	•	3,951	
" securing	danger	ous chi	.m-	Í	
neys			•	6,546	
" providing		scapes a	ınd		
	onal mear			10,284	
" amount of dama					
fire is			•	132,653	
				,	
The number of communi-	cations,	notices,	etc.,	re-	
ceived, referred, and a	icted upo	n .	•	. 319	
From City Council				. 51	
Police Department.	•	•	•	. 43	
Surveyor's Departme	nt ·	•	•	. 40	
Fire Department .		•	•	. 11	
Street Department	•	•	•	. 3	
Board of Health .	•		•	. 160	
general communication	one.	•	•	. 110	
general communication	Olis	•	•	. 11	
Total .	•		•	. 319	
PERMITS ISSUED FOR BRIC	K. STON	E. AND	Iron B	HILDINGS.	
	11 , 0101	121, 121,20	22021 25		
Asphalt melting-house .	•	•	•	. 1	
Bake-house	•	•	•	. 1	
Banking institution .	•	•	•	. 1	
Blacksmith shop	•	•	•	$\frac{1}{2}$	
Boiler-houses	•		•	. 8	
Boiler and dry house .	•	•	•	. 1	
Brewery	•	•	•	. 1	
Car-house	•	•	•	. 1	
Carriage-house	•	•	•	. 1	
Charitable institutions .	٠		/ • /	. 2	
Dwellings	•		•	. 174	
Dwellings and stores .	•	•	•	. 5	
()					
Carried forward,				197	

Brought	forwe	urd,						197
Dwellings and	d stab	les				•		11
Dye-house	• .				•		•	1
Engine-house	s			•				2
Family hotels	· .	•	•			•		18
Family hotels	and	stores		•,				2
Founderies	•							2
Hotels .		•		•				2
Lodge .		•			•			1
Manufacturing	o.			•				3
Mechanical	•							1
Mercantile				•				20
Medical Colle	ge		•					1
Milk depot	•				•			1
Offices .	•							2
Public buildir	igs							5
Restaurant	•		•					1
Restaurant an	d stor	age						1
Sand drying-l								1
Seminary								1
Stables .		•						8
Storage .								11
Stores .								2
Stores and off	ices	•						2
Tenement-hou								9
Tenement-hou		nd sto	res					1
Train-house				•	•	•		1
Varnish-shop	•							1
•								
	Total		_					308

Exhibit "A" will give the statement in tabular form.

XHIBIT A

Showing the whole Number of Brick Buildings in each Ward for which Permits have been issued.

		Totals.	г	Н	-	-	∞	Н	-	٦	H	63	174	5	11	7
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			Asphalt Melting-house .	Bake-house	Banking Institution .	Blacksmith Shop	Boiler-houses	Boi	Brewery	Car-house	Car	Chi	Dw	DW	DW	Dy

EXHIBIT A.—Continued.

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	PURPOSE OF BUILDING.		-hou	. Hot	. Hot	sries	•	:	etur	nical	ıtile	l Co	epot	•	Buil	rant	rant	Oryin
			Engine-houses	Family Hotels	Family Hotels and Stores	Founderies	Hotels	Lodge	Manufacturing	Mechanical .	Mercantile	Medical College	Milk Depot.	Offices	Public Buildings	Restaurant	Restaurant and Storage.	Sand Drying-house
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Kominary	Schilla	Stables	Storage	Stores	Stores and Offices .	Tenement houses	Tenement-houses and Stores	Train-house	Varnish shop	Totals

EXHIBIT B.

Showing the Styles of Roofs and the Number of Stories of the foregoing Buildings.

Wards.			No. or	STO	RIES	•		STYLI	e of R	OOF.	OF
WANDS.	1.	2	3	4	5	6	7	Мар.	Flat.	P'ch.	No. of Buildings.
1											
2	2	1	2						2	3	5
3	1									1	1
4	3	1	2					1	4	1.	6
5	2		2						3	1	4
6		1		3	2	• •			6		e
7	2		2	2	1				7		7
8	3							1	2		3
9	1		1							2	2
υ	1	1	1	2	2	4	1	1	10	1	12
1	4	46	99	17	9	2		77	89	11	177
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3	4	1	1						6		(
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5											
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3	1		2					1	2		3
4	1			1				1		1	2
5	• •			1						1	1
Totals	37	62	143	36	21	8	1	104	172	32	308

PERMITS ISSUED FOR WOODEN AND FRAME BUILDINGS.

								1
Annealing-house	•	•	•	•	•	•	•	L
Blacksmith shops	•	•	•	•	•	•	•	4
Boat-house .	•	•	•	•	•	•	•	1
Boiler-house .	•	•	•	•	•	•	•	1
Car-houses .	•	•	•	•		•	•	2
Carpenter-shops		•		•	•	•	•	4
Carpet cleaning fac	etories	•	•	•	•	•	•	2
Carriage-houses		•	•		•	•	•	8
Churches .		•	•	•			•	1
Coal-sheds .	•	•	•	•	•	•	•	6
Coal and wood she	ds	•	•		•	•		1
Cooper shop and w	ash-ro	oom		•	•			2
Cow barn .		•			•	•		1
Drying-houses					•			2
Dwellings .								457
Dwelling and store	ge					•		1
Dwellings and stor	es		•	•				16
	• .							2
Engine and boiler	house							1
Engine, boiler, and			ouse					1
Finishing cloth								1.
Foundery .								1
Grain chute .		•						1
Greenhouses .	į							13
Ice-house .	•	•	•	•				1
Junk shop .	•	•	•	•	•	•		$\hat{1}$
Manufactories.	•	•	•	•	•	•	•	9
Mechanical .	•	•	•	•	•	•	•	10
Offices	•	•	•	•	•	•	•	9
	•	•	•	•	•	•	•	$\frac{3}{2}$
Paint-shop .	•	•	•	•	•	•	•	$\frac{2}{2}$
Pattern-shop.	•	•	•	•	•	•	•	$\frac{2}{2}$
Piggeries .	•	•	•	•	•	•	•	$\frac{2}{2}$
Play-houses .	•	•	•	•	•	•	•	
Poultry-houses	- •	•	•	•	•	•	•	9
Pumping-stations	•	•	•	•	•	•	•	1
Railway-stations	• , 1	•	•	•	•	•	•	2
Refining precious	metals	3.	•	•	•	•	•	1
Refrigeration.	•	•	•	•	•	•	•	1
Restaurant .	•	•	•	•	•	•	•	1
Saw-mills .	•	•	•	•	•	•	•	2
School-house.	•	•	•	•	•	•	•	1
Shed		•			•	•	•	1
Shoemaker's-shop	•			•	•	•	•	2

Brought for	ward	,						589
Smelting .		•						1
Stables			•	•				76
Stable and carriage		e						1
Stable and coal-she	d		•					1
Stable and shed		•		•	•	•		1
Stable and wagon-s	$_{ m hed}$	•	•	•	•			1
Stone-cutting-shed	•	•		•	•		•	1
Storage	•		•	•	.•	•		82
Stores	•	•			•			4
Summer-house	•	•			•			1
Tool-house .	•			•		•	•	1
Tool-house and stor	rage	•			•			2
Voting precinct	•	•	•					1
Wagon-sheds.	•			•		•		14
Ward club-room		•	•	•	•	•		1
Watch-house.				•				1
Whitesmith's-shop	•				•			1
Wood-sheds .	•		•	•	•		•	8
Total .	•				•			787

Exhibit "C" will give the statement in tabular form.

XHIBIT C.

Showing the Number of Wood and Frame Buildings in each Ward for which Permits have been issued.

L'OTAL.		1	4	Н	Н	63	731	63	∞	-	9	٢	23	1	63	457
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8	14	:	•	:	:	:	1	:	1	:	•	•	:	:	:	69
WARDS.	E.		:	•	:	:	:	•	•	:	:	:	:	:	• •	12
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PURPOSE OF BUILDING.		aling	smit	pous	r-hou	onse	nter	st-cle	age-1	ches	shed	and	er-sb	barn	ıg-hc	lings
		Annealing-house	Blacksmith shop	Boat-house	Boiler-house .	Car-house .	Carpenter shops	Carpet-cleansing factories	Carriage-houses .	Churches .	Coal-sheds	Coal and wood shed	Cooper-shop and wash-room.	Cow-barn	Drying-houses.	Dwellings
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EXHIBIT C.—Continued.

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PURPOSE OF BUILDING.		Dwellings and storage .	Dwellings and stores	•	Engine and boiler houses	Engine, boiler, and mixing houses	:		•		•	•	:	:			
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Piggeries	Play-houses .	Poultry-houses	Pumping-station .	Railway-stations	Refining precious metals.	Refrigeration	Restaurant	Saw-mills	School-houses		Shoemaker's-shop	Smelting	Stables .	ble	Stable and coal-shed.	Stable and shed	Stable and wagon-shed	Stone-cutting-shed .	Storage	Stores	Summer-house	Tool-house
Pig	Pla	Pou	Pur	Rai	Ref	Ref	Res	Sav	Sch	Shed	\mathbf{g}	Sm	Sta	Sta	Sta	Sta	Sta	Bto	Sto	Sto	Bur	To

EXHIBIT C. - Continued.

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PURPOSE OF BUILDING.	<u> </u>	Tool-house and storage	Voting precinct	Wagon-sheds	Ward club-room	Watch-house	Whitesmith's-shop	Wood-sheds	

EXHIBIT D.

Showing the Styles of Roofs and the Number of Stories of the foregoing Buildings.

Wards.		No.	of Sto	RIES.			STYL	E OF I	Roof.		No. of Buildings.
ą	1	2	3	4	5	Man.	Flat.	Pitch.	Hip.	Goth.	No. of
1	27	16				10	7	26			43
2	7	8	3			3	11	4			18
3	6	4	9				16	3			19
4	5	3	5	1			10	4			14
5	4	8	4	• • •			12	4			16
13	9	3	13				20	5			25
14	28	41	16			32	33	19	1	,	85
15	5	14	8	• • •		6	13	8			27
19	6	4	1			2	8	1			11
20	20	33	1			6	11	35	2	• • •	54
21	17	78	6			10	6	66	16	3	101
22	12	19	8	1		5	23	12			40
23	47	50	6			1	16	81	5		103
24	67	95	4			9	13	114	29	1	166
25	22	41	1		1	1	6	56	2		65
Totals	282	417	85	2	1	85	205	438	55	4	787

SPECIAL PERMITS.

The provisions of Section 1 of Chapter 260 of the Acts of 1872 prohibit the erection of independent wooden buildings within the boundaries of the district known as the building limits of the City of Boston, with certain exceptions as to wharves.

Wooden additions to existing buildings in this district can, however, be erected, with a limitation as to height and area to be covered.

These limits are established by the City Council under statute authority; and by an ordinance approved July 8, 1871, were defined as follows:—

Beginning at the intersection of the centre line of Dover and Albany streets, thence running eastwardly through the centre of Dover street to the Harbor Commissioners' line; thence around the northerly portion of the "City Proper," by the said Harbor Commissioners' line to a point on Charles river, opposite the centre line of Parker street or cross dam; thence through the centre of Parker street or cross dam to a point opposite the centre of Ruggles street; thence through the centre of Ruggles street to the centre of Washington street; thence through the centre of Washington street to a point opposite the centre of Palmer street; thence through the centre of Palmer and Eustis streets to the centre of Hampden street; and thence through the centre of Hampden and Albany streets to the point of beginning.

The said district being shown by a shaded red line on a plan made by the City Surveyor, dated June 26, 1871, and deposited in the office of

the City Surveyor.

The above ordinance, establishing the boundaries of the building limits, was amended April 6, 1878, by striking out after the words, "to a point on Charles river opposite the centre line of," the words, "Parker street or cross dam," and inserting in their place the words, "West Chester park as extended; thence through the centre of West Chester park to its intersection with Boylston-street extension; thence through the centre of Boylston-street extension to the centre of Parker street"; and after the words, "dated June 26th, 1871," insert the words, "as amended as shown by a shaded blue line on said plan." December 31, 1881, the following was passed:—

AN ORDINANCE TO AMEND AN ORDINANCE IN RELATION TO THE REGULATION AND INSPECTION OF BUILDINGS.

Be it ordained by the Aldermen and Common Council of the City of Boston, in City Council assembled, as follows:—

Section 1. Section 1, of an ordinance in relation to the regulation and inspection of buildings, passed July 8, 1871, and amended April 6, 1878, is hereby repealed and the following enacted in place thereof:—

SECTION 1. The limits within which all buildings hereafter erected shall be required to conform to the provisions of Chapter 280 of the year eighteen hundred and seventy-one, are hereby established and defined as follows:—

Beginning at the intersection of the centre line of Dover and Albany streets, thence running eastwardly through the centre of Dover street to the Harbor Commissioners' line; thence around the northerly portion of the "City Proper," by the said Harbor Commissioners' line to a point on Charles river at the intersection of said line with a boundary line between Brookline and Boston; thence along said boundary line to a point opposite the centre of Longwood avenue; eastwardly to the centre of Bumstead lane; thence through the centre of Bumstead lane to the centre of Ward street; thence through the centre of Ward street to the centre of Parker street; thence through the centre of Parker street to Ruggles street; thence through the centre of Ruggles street eastwardly to the centre of Washington street; thence through the centre of Palmer street; thence through the centre of Palmer street; thence through the centre of Palmer street; thence through the centre of Hampden street; and thence through the centre of Hampden and Albany streets to the point of beginning.

The said district being shown by a shaded red line on a plan made by the City Surveyor, dated June 28, 1881, and deposited in the office of

the City Surveyor.

Showing the whole number and purpose of buildings for which special permits have been issued:—

Carriage manufacto	ory				•	•		1
Ice-house .	•	•	•	•	•	•	•	1
Lunch-room .					•	•		1
Storage of barrels						•		1
Storage of cars		•	•			•		1
Storage of coal		•	•					1
Storage of freight	•	•	•		•	•		3
Storage of lumber		•			•	•		2
Storage of lumber		dry-h	ouse		•			1
Storage	•			•				1
O								
Tota	l	•	•		•			13

EXHIBIT E

Showing the whole Number and Purpose of Buildings in each Ward for which Special Permits have been issued.

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	65	:	:	:	:	:	:	:	:	:	•	1:
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	9	1 .	•	•	:	•	•	•	•	•	•	1 .
	8	1 .	•	•	•	•	•	·	•	•	·	1 .
	1	1 .	··	<u>:</u>	·	•	•	•		<u>.</u>	•	64
		1 .	•	<u>:</u>	•	•	· -	•		•	· ·	67
	19	1 .	•	•	•	•		•		<u>.</u>	•	1 .
	12	1 .	•	•	•	•	•	•	•	•	•	.
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		6.0	:		92	:	:		:	dry	:	
		Carriage manufacturing .		:	•		:	Storage of freight	Storage of lumber	and	•	:
		factı	:	:	Storage of barrels	Storage of cars	Storage of coal	ght .	ber	ber	•	
		Inux	:	Lunch-room	barı	cars	coal	freig	lum	lum	:	
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		arr	36-1	un	tor	tor	tor	tor	tor	tor	tor	

EXHIBIT F.

Showing the Number of Stories and Style of Roof in each Ward of the foregoing Buildings.

Wards.		N	Го. о	f St	ORIE	s.			s	TYLE O	F Roo	F.		No. of Buildings."
	1	2	3	4	5	6	7	Man.	Flat.	Pitch.	Hip.	Goth.	Sun.	No. of
1														
2				٠.					• • •					
3														
4														
5														
6	4								4					4
7														
8	1								1					1
9		1							1					1
10														
11														
12	3								3					3
13														
14														
15														
16	1	1							2					2
17	2								2					2
18				• •		• •								
19														
20								.						
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23														
24														
25														
Totals.	11	2							13					13

STEAM-ENGINES, BOILERS, OVENS, AND FURNACES.

Under the provisions of Section 18 of Chapter 371 of the Acts of 1872, this department has supervision of the setting of all steam-boilers and heating apparatus, and the building

of ovens, furnaces, etc.

The prosecution of this work does not, however, involve an inspection of the boilers, with a view to ascertain their condition and safety, and, though frequently called to act for that purpose, it has no legal authority.

STEAM-ENGINES, BOILERS, FURNACES, ETC.

The number of steam-boilers, engines, furnaces, etc., for which permits have been issued during the year, is as follows:—

STEAM-ENGINES AND BOILERS, ETC.

					•			
3	•					•		26
	•			•	•	•	•	155
and e	engine	es	•	•	•	•		66
9								1
lers	•						•	4
Total			•			•		252
	Ove	vs, R	ANGES	s, e TC	.			
								11
								3
ens								4
)			•					1
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								11
•	•	•		·	•	2		
Total								31
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S								4
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	and elers Total Total Total	and engine elers . Total OVEN	and engines elers Total . OVENS, R. ens Total . Total . Kilns, Ke	and engines elers lers Total OVENS, RANGES ens Total Kilns, Kettles	and engines	and engines elers Total OVENS, RANGES, ETC. ens Total Kilns, Kettles, Etc.	and engines lers Total OVENS, RANGES, ETC. ens Total Kilns, Kettles, Etc.	and engines elers Ovens, Ranges, etc. Total Kilns, Kettles, etc.

Total

28

Report	OF	Inspec	CTOI	к оғ Ві	UILD	oings.		25
		Furnac	ces,	, ETC.				
Melting-furnaces		•		•				41
Blacksmith's furnac	\mathbf{e}	•	•	•	•	•	•	1
Brick furnaces		•		•	•	•		
Sad-iron heaters		•		•		•		$egin{array}{c} 8 \ 2 \end{array}$
Furnaces .		•		•		•		10
Blacksmith's forges		•		•				22
Stereotype furnace		•	•	•	٠	•	•	1
Total .	•	•	•	•	•	•	•	85
Grand Total	•.	•		•	•	•	•	396
	\mathbf{H}_{1}	EATING .	Api	PARATUS	•			

561

Furnaces, and other heating apparatus

EXHIBIT G.

Showing the whole Number of Steam-Boilers, Engines, Furnaces, etc., in each Ward for which Permits have been issued.

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	SE			:	Blacksmith's furnace .	Brick furnaces	Blacksmith's forges.	Chemical oven .	Chemical tanks.	on on one			Hot-air engine	Hot-water boilers .	Japanning ovens .	:
	PO		Baker's ovens		1,8 1	ace	1,8	ver	ank	Coffee-roasters	•	Furnaces	gine	poq	00	:
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	Ę			ngu	lioc	oil	ď	уре	als
	ng	, 2	es	n-e	m-t	n-p	iroı	30ty	Totals
Kilns	Melting furnaces	Ovens	Ranges	Steam-engines	Steam-boilers	Steam-boilers and engines	Sad-iron heaters	Stereotype furnace .	

ALTERATIONS, ADDITIONS, AND REPAIRS.

The number of buildings for which permits have been issued to have alterations made upon them, and to have additions built to them, is 2,485, classified as follows:—

Brick	•	•	•	•	•	•	•	•	•	978
Wood Stone	•	•	•	•	•	•	•	•	•	1,493 10
Iron	•	•	•		•	•	•	•	•	4
	Total									2.485

EXHIBIT H.

Showing the whole Number and Purpose of Buildings in each Ward for which Permits were issued for Repairs, Alterations, and Additions.

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	4	:	H	က	•	51	9	:	က	:	•	:	က	:	:
	60	-	:	:	:	75	9	•	Н	Н	:	:	4	П	:
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	21	63	C1	23	:	33	က	ಣ	:	Н	61	Н	-	:	23
	02	:	:	:		45	20	:	:	:	:	:	4	:	:
	19	:	:	က	•	48	6	23	:	:	2	1	က	:	က
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	12	:	•	:	:	31	4	61	:	:	:	4	-	5	7
	16	:	:	H	:	16	13	:	:	:	Н	:	4	:	4
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	11	:	:	:	:	59	:	:	:	•	9	:	:	:	•
	10	:	:	:	Н	21	2	:	:	4	10	6	5	:	11
	6	:	:	-	-	33	5	:	:	:	:	:	:	6	:
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		Boiler-houses .	Carriage-houses .	Churches	Club-houses .	Dwellings	inge	Founderies	Greenhouses	•	•	Lodging-houses .	Manufactories.	Mechanical	Mercantile
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EXHIBIT H. - Continued.

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F	:	23	:	•	-	67	Н	16	20	_	:	2	•	-	147
		Offices	Printing	Restaurants	School-houses		Shops	Stables	Storage	Btores	Stations and freight-houses	Tenement-houses	Theatres	Miscellaneous	Totals

MEANS OF EGRESS AND FIRE-ESCAPE.

Under the provisions of the building-law, fire-escapes and sufficient means of egress are required in the following classes of buildings:—

Buildings in which operatives are employed in any of the

stories above the second story.

Buildings occupied by two or more families on any floor above the second floor from the level of the street.

Hotels, boarding and lodging-houses, factories, mill or manufactory.

Buildings occupied in part, or in whole, for any public

purpose.

All new buildings belonging to any of the above classes are especially examined in regard to their construction, with reference to fulfilling legal requirements in furnishing suitable and ample means of egress in case of fire or accident.

The number, location, arrangement, and width of the stair-ways; the proposed number of occupants or operatives; the proposed use of the building; its proximity to other buildings, and the materials of which it is built, — all enter into consideration.

Old buildings altered to, or by occupancy brought to, be comprised in any of the above classes of buildings requiring fire-escapes, are also duly inspected, and the necessary means of escape are required, the same as if it was a new building.

Requisitions for fire-escapes have been made upon the following classes of buildings:—

Banks and offices				•	•	•		22
Foundery .	•	•	•					1
Hotels		•	•	•	•	•		3
Lodging-houses	•	•	•	•	•	•	•	10
Manufacturing	•	•	•	•	•		•	99
Mechanical .	•	•	•	•	•			39
Mercantile .	•	•	•	•	•	•		52
Printing .	•		•		•			4
Public buildings			•	•	•			4
School-houses			•	* •		•		2
Tenement-houses	•	•			•		•	46
Miscellaneous	•	•	•		•	•		13
Total			•		•			295

EXHIBIT I.

Showing the Number of Stories and Style of Roofs in each Ward of the foregoing Buildings.

		No. of Stories.							STYLE OF ROOF.				
	Wards.	1	2	3	4	5	6	Man.	Flat.	P'ch.	Hip.	Sun.	No. of Buildings.
1													
2					1					1			1
3													
4					7				6			1	7
5													
6				13	33	7	1	17	9	27		1	54
7				10	40	23	9	19	36	24	2	1	82
8					1			1					1
9						1	1	1	1				2
10				14	31	15	4	19	25	18		2	64
LI													
12				6	25	15	3	7	36	6			49
13				1	4	2		1	6				7
14									• •				
15													
16				2	3			1	2			2	5
17				٠.	10				8			2	10
18				• •		1			1				1
19					1				1				1
90			8	2		• •		8		2			10
21													
22													
23				1					1	• .			1
34						• •			• •				
25						• •		• •					
	Totals		8	49	156	64	18	74	132	78	2	9	295

EXHIBIT J.

Showing the whole Number and Purpose of Buildings in each Ward for which better Means of Egress have been ordered.

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		49
	• ••	<u> </u>
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	•	61
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and ery sett actr nice built built built.	lanc	Totals
Banks and offices Foundery Hotels Lodging-houses Manufacturing Mercantile Printing Prublic buildings	Tenement-houses. Miscellaneous	T
Ban Loc Ker Ker	Te	1

FIRE AND ACCIDENT RECORD.

een 1	eport	ed us		
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s:—				
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				1
			. 1	12
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				1
				2
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	•			15
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•	•		•	2
	•		. (35
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	iler iler cod lar ve djoini rth ing	iler iler iced lamp or ove djoining but ing tact with classes	oiler	oiler oiler oiler diamp or candle, ve djoining building, tact with clothing, re work

REPORT OF INSPECTOR OF BUILDING	GS.	35
Kerosene-oil lamp, breaking of		. 2
Kerosene-oil lamp, explosion of	•	. 16
Kerosene-oil lamp, upsetting of	•	. 5
Kettle of hot fat, boiling over stove .	•	. 2
Lighted cigar or pipe placed against window-fr	· ama	. 1
Lighted eigar thrown in closet	ame	. 2
Lighted gas-jet in contact with basket-work	•	. 1
	•	. 1
Lighted gas-jet in contact with screen .	•	. 1
Lighted gas-jet in contact with window-curtain	•	. 6
Lighted gas-jet in contact with wood-work	•	. 1
Lighted lamp in contact with clothing .	•	. 1
Lighted lamp in contact with escaping gas	•	. 1
Lighted match dropped in closet	•	. 1
Lighted match falling on floor.	•	. 9
Lighted match falling on pile of waste-paper	•	. 5
Lighted match in contact with clothing .	•	. 3
Lighted match in contact with kerosene oil	•	. 1
Lighted match thrown among old material		. 4
Lighted match thrown in straw	•	. 2
Lighted match or cigar thrown in spittoon fille	ed wit	th
sawdust	•	. 4
Lighted match thrown on bureau	•	. 1
Lighted match thrown on mattress		. 1
Lighted taper in contact with escaping gas	•	. 1
Lighted tobacco-pipe laid on bed		. 1
Lightning		. 2
Matches falling on floor and being stepped upo	n	. 1
Mice among matches		. 15
Nail-keg too near stove		. 1
Naphtha taking fire from lighted lamp .		. 1
Overheated firebox		. 1
Overheated furnace	•	. 1
Overheated machine-shafts	•	. 2
Overheated stoves	•	$\stackrel{\cdot}{}$ $\stackrel{}{}$
Overheated stoves	•	. 1
	•	. 2
Rags placed in thimble-hole	•	
Rekindling of previous fire	•	. 1
Sparks from a fire in Cambridge	•	. 1
Sparks from circular-saw	•	. 1
Sparks from chimney falling in brushwood	•	. 1
Sparks from chimney falling on roof	•	. 8
Sparks from fire under boiler falling in shaving	gs	. 3
Sparks from fire under boiler falling on floor	•	. 1
Sparks from forge	•	. 4
Sparks from glass-melting furnace	• * 1	1
Sparks from lighted pipe or cigar		. 9
Sparks from locomotive		. 1

Sparks from plumber's furnace .		•		1
Sparks from soldering furnace.	•	•	•	1
Sparks from stove		•		2
Sparks from stove falling on waste-paper	•	•		1
Spontaneous combustion				24
Steam-pipe in contact with wood-work				3
Stove-funnel in contact with wood-work	•			8
Stove in contact with rags				1
Stove in contact with wood-work .				1
Water-pipes, thawing out	•			7
Wood-casing of overheated boiler .				1
C				

THE INSPECTION OF BUILDINGS.

The number of violations that have been investigated and reported on is 1,872.

The following statement exhibits the nature of these vio-

lations:—

Violations of the statutes	•				•	1,748
" ordinances	•	•	•			124
Total		•	•	•	•	1,872
Addition exceeding height		•				2
Addition exceeding size .	•					1
Bay-windows projecting over	street	. ·			•	4
Building projecting over line of					•	1
Buttresses projecting over line			•	•		1
Chimney supported by wood-v		•	•		•	12
Columns too far apart on centr	res		•	•	•	1
Combustible material .		•	•	•		1
Combustible roofing material	•		•	•		1
Defective conductor .			• ,	•		3
Defective foundation .	•		•		•	3
Dry foundation	•		•	•	•	3
Exceeding range	•	•	•	•	•	2
Fire-escape, none	•	•	•	•	•	295
Flues not plastered	•	•	•	•	•	35
Flues, wood-work against		•		•	•	38
Framing improper	•	•	•	•		14
Girder, no plate under .	•		. •	•		1
Hot-air pipes, wood-work again	inst	. •	•	•	•	36
Improper construction .	•	•	•	•.	. •	16
Carried forward,						470

Total .

. 1,872

Unsafe	building .	•		•			. 60
6 6	boat-landing		•		•		. 1
66	clothes-shed			•			. 2
66	clothes-shed-ra	ail .		•			. 1
66	coal-shed .			•	•		. 1
6 6	coping .		•	•			. 1
66	cornice .			•	•		. 2
6 6	ell		•				. 1
66	elevator .		•	•	•		. 1
6.6	external wall			•	•	•	. 2
6 6	fence		•	•	•		. 1
66	floor			•	•		. 9
6 6	foundation .	•	•				. 10
6 6	foundation-wa	ll .		•			. 7
6.6	gable-wall .		•	•			. 1
66	gutter .		•				. 3
66	gutter-stone		•	•	•		. 1
66	observation st	and	•	•	•		• 1
6 6	party-wall .		•	•			. 8
6 6	pier	-	•	•			. 1
6 6	post foundation	n .	•				. 1
66	retaining-wall		•	•			. 2
6 6	roof			•			. 1
66	shafting .	•	•	•	•	•	. 1
6 6	shed-steps .		•	•	•	•	. 1
66	sign on roofs	•	•	•			. 1
6 6	stairs.		•				. 2
6 6	stair-rail .		•		•		. 1
66	stair-way .		•		•		. 4
66	stone column		•	•	•		. 1
66	tenont .	•	•	•	•	•	. 1
6 6	tower		•			•	. 1
• 6	truss		•	•	•	•	. 1
66	walls	•	•	•	•		32
6 6	yard-walls .	•	•	•		•	. 2
Defect	ive conductor		•	•	•		
Defect	ive gutter .		•	•	•	•	
	Total						. 179
	Total .	•	•	•	•	•	

The following Table shows the Number of Unsafe Buildings, Walls, Chimneys, etc., reported on as rebuilt, secured, etc.

	Rebuilt.	Secured or repaired.	Takeu down.	Not reported on.	Total.
Jnsafe buildings		13	11	36	60
" boat-landing				1	1
" clothes-shed	1	1			2
" clothes-shed rail				1	1
" coal-shed				1	1
" coping				1	1
" cornice		1		1	2
" ell				1	1
elevator		1			1
" external wall				2	2
" fence				1	. 1
" floor	4	3		2	9
" foundation	3	3		4	10
" foundation-wall	2		N.C. 1	4	7
" gable-wall				1	1
" gutter				3	3
" gutter-stone				1	1
" observation stand				1	1
" party-wall	1	1		6	8 -
" pier		2		1	3
" post foundation		1			1
" retaining-wall	2				2
" roof				1	1
" shafting		1			1
" shed-steps				1	1
" sign on roof			1		1
" stairs				2	2
" stair-rail		1			1
" stair-way		2		2	4
" stone column				1	1
" tenont		1			1
" tower			1		1
" truss				1	1
" walls	3	4	N.C. 1	24	32
Carried forward	16	35	15	100	166

Unsafe Buildings, Walls, etc. — Continued.

	Rebuilt.	Secured or Repaired.	Taken down.	Not re- ported on.	Total.
Brought forward	18	35	15	100	166
Unsafe yard-walls	1	1			2
" heating-apparatus .		21	8	17	46
Defective conductor				6	6
" gutter				5	5
" flues	1	1		4	6
Dangerous chimneys	94	43	6	161	304
Totals	112	101	29	293	535

Hoist-ways and Elevators.

The attention of this department has, to a considerable extent, necessarily been directed to the inspection of hoistways and elevators. The large increase in their number since the fire of 1872, the increased height of buildings now being erected, the introduction of elevators into classes of buildings heretofore not generally provided with them, such as hotels, family hotels, operative and public buildings, and the especial danger from accident, and the extension of fire in their use, indicate that more than ordinary attention should be given them.

The requirements are few and simple: a railing, trap-doors, and trap-doors closed, except when in actual use by the occupants of the building. It was supposed at the time of the passage of the act governing hoist-ways and elevators that its provisions would cover all cases that would arise; but that expectation has not been wholly realized, non-compliance often arising from ignorance, negligence, or design,

according to the character of the individual.

"There are few provisions of the building law more important than this one. When it is considered that, for protective purposes in case of fire, the floors of our buildings are so constructed as to make only an apparent separation of the stories, and that, with a large flue extending from the basement of a building to the roof, and the building stored with large amounts of combustible material, it becomes especially dangerous in case of a fire occurring in it, which, instead of being temporarily confined to the story in which it originated, spreads at once throughout the building, imper-

illing, to a greater or less extent, all surrounding buildings; and when the number of firemen whose lives have been lost, or who have been seriously injured by entering these or adjoining buildings having unprotected hoist-ways, is also considered, the simple requirements of rails and of closed trap-doors during non-business hours are not to be considered onerous or burdensome, and any neglect to make them conform to legal requirements no excuse for an exemption from the prescribed penalty."

In view, then, of their rapid and general introduction into various classes of buildings, and the unsafe consequences thereto attendant from those not properly protected, appropriate additional legislation in the matter of their regulation

seems imperative.

The total number of examinations that have been	
made is	291
The number of hoist-way and elevator openings	
unprovided with trap-doors	341
The number of hoist-way and elevator openings	
unprovided with a railing	834
The number of trap-doors left open when not in actual	
use	3

VICLATIONS OF THE BUILDING-LAW PLACED ON FILE FOR PROSECUTION.

Building No. 120 Pearl street.—The complaint was for leaving trap-doors open between 6 and 7 A.M., Feb. 8, and when not in actual use. The case was settled upon payment of fine.

Building No. 25 Haverhill street.— The complaint was for leaving trap-doors open at 8.54 P.M., July 5, and when not in actual use. The case was settled upon payment of fine.

Building Nos. 66 and 68 Haverhill street.—The complaint was for leaving trap-doors open between 12 and 1 A.M., July 16, and when not in actual use. The case was settled upon payment of fine.

PERMITS FOR THE OCCUPANCY OF STREETS.

The number of permits that have been issued to occupy streets for building purposes is as follows:—

Street permits in force January 1, 1881		•	. 1,190
Street permits issued during the year	٠.	•	. 1,405

Total	•		•		2,595

Street permits issued during the year 1880, and can-	•
celled during the year 1881	
Street permits issued and cancelled during year 1881	
Street permits revoked	
Street permits in force December 31, 1881 .	. 162
•	
Total	2,595

January 5, 1881.—D. M. Garrett, while employed making alterations on building No. 32 to 33 South Market street, stepped upon a temporary covering over stairway opening in fourth story, consisting of light boards, which gave way, not being properly supported. He, fortunately, sustained but slight injuries, although falling to the second floor.

February 4, 1881.—Mr. Johnson and others were repairing elevator in building No. 637 Main street; the iron rope which runs elevator became detached from wheel in the basement floor, causing the rope which hoists elevator to become entangled on wheel at roof, so that elevator did not run freely. Mr. Johnson jumped on the elevator, causing it to fall fifteen feet, when the rope became tight, checking the fall of the elevator, bringing the rope against sharp edge of the drum of the windlass with such force as to cut the rope, causing elevator to fall into cellar.

February 5, 1881.—Mrs. Ellen Kane, residing 45 Portland street, stepped upon balcony of fire-escape, and leaning over same lost her balance and fell ten feet ten inches into street, striking on her head, fracturing her skull. She was removed to the Massachusetts General Hospital, where she

died.

Mr. Charles Kieley, while loading elevator in building 79 to 81 Summer street, on the fifth floor, stepped on the car, allowing it to descend unchecked. The velocity of the car caused the counterbalance weight to ascend and strike against the pulley, which broke and fell. Mr. Kieley, when taken from the car at the bottom of the elevator-way, was found to be injured, but not seriously.

January 10, 1881. — Willard A. Sherman, while at work shoeing horses, No. $22\frac{1}{2}$ Pitts street, had his foot injured by the falling of loose bricks from the chimney, through the

skylight.

Mr. John Tolan and Patrick Ryan, while employed taking down building on Charlestown street, corner Cooper street, on second floor, were injured by the falling of one of the piers of the external wall, crushing through the second floor, and carrying said Ryan and Tolan down to the first floor. Tolan was seriously injured, Ryan slightly bruised.

J. Conners, while employed with others laying the foundation of Massachusetts Charitable Mechanic Association building, located on Huntington avenue and West Newton street, was injured by the breaking of the derrick, which fell and struck him on the head. He was picked up insensible, taken to the City Hospital, where he died from his injuries.

At the same location and same day a fireman on one of the locomotives on Boston & Providence R.R., while endeavoring to switch a car from one track to another without aid, by attaching a rope to the engine and car, was unable, on account of the speed attained, to disconnect the rope from the locomotive in time to allow the car to proceed unhindered; in consequence, four posts, supporting a platform which divided the two tracks, were pulled down, letting the floor on same fall. Mr. Lothrop and a boy, who were standing on platform at the time, fell to the ground below, twenty feet, but received no injury.

May 24, 1881.—In building located 89 Broad street, Mr. Meserve, while standing near an elevator-way in conversation with William H. Henry, either became dizzy or stepped backwards, and fell through elevator-way, from second floor to cellar, a distance of 26 feet. The chain was not placed across the elevator at the time. Mr. Meserve was carried to the City Hospital, where it was found that one leg was broken.

June 10, 1881.—In building located No. 3 Winthrop square, and 13 and 14 Otis street, a girl, 14 years of age, named Josephine Enos, ascended to the fifth floor on the freight elevator, which she left on reaching the said floor, without stopping the car. The door enclosing the elevator shaft being closed, she was left standing on the threshold, from which she fell to the bottom of the elevator shaft, about 60 feet. She was dead when found.

William Higgins, a laborer in building No. 5 Union wharf, while in the act of raising the trap-door of hoist-way, fell through the same, from the third to the first floor, injuring him somewhat, but breaking no bones.

Anthony Cuffe, the boy who runs the elevator in Tremont House, Tremont street, corner Beacon street, was injured by being jammed between the floor of elevator and ceiling of second floor, in attempting to get on to the elevator after it had started. He was taken to the City Hospital, where he died from his injuries.

June 22, 1881. — Michael Morgan, a laborer employed at Jordan, Marsh & Co.'s building, 55 Bedford street and 69 Kingston street, was injured by falling from the street plat-

form to the bottom of the elevator shaft, a distance of 15 feet, while stepping backwards with a truck, after the elevator had ascended, leaving the same open and unguarded.

Mr. Morgan died from his injuries.

At the Revere House, Bowdoin square, while the elevator was ascending it fell from third floor; the occupants, Mrs. Maurice McGraw and her daughters, were injured. Mrs. McGraw, who was standing in the elevator, received the entire concussion, breaking one of her legs; Miss Cora had one of her ankles badly sprained, and Miss Louisa received slight bruises.

William Allston, a painter employed on building of Massachusetts Charitable Mechanics' Association, located on Huntington avenue and West Newton street, was slightly injured

by falling from a staging some 20 feet.

At a fire in building Nos. 120-124 Tudor street, a fireman, Mr. Charles A. Smith, was seriously injured by falling through an elevator opening from the second floor to basement, a distance of 21 feet. The elevator was properly protected by rails, but had no trap-doors. The rails were partially burned when Mr. Smith fell.

October 27.— Maurice Healy, employed at 87 and 89 Commercial street, stepped into the elevator opening, and fell through from the first floor to the cellar below, a distance of 10 feet. He was carried to the City Hospital, where he died, his skull having been fractured by the fall.

William Park and Augustus Dyer, while at work building a chimney on premises East First street, corner of O street, fell from the staging to the basement, a distance of 35 feet,

and received serious injuries.

September 14, 1881.—Francis A. Chandler, at work cutting an opening through the external wall of a building on Foundry street, near Swan street, was killed by a portion of

the wall falling on him.

William J. Atkinson, one of the call-boys of the Adams House, No. 555 Washington street, was injured slightly by being caught between the elevator car and the ceiling while attempting to look out of the car while it was in motion.

Samuel Lowe, at work in the upper story of building 98 Canal street, started to get on the elevator, which he thought was at that floor; he stooped under the rail, stepped off, and fell. The car was ascending; he struck the cross-head of the elevator and was killed instantly.

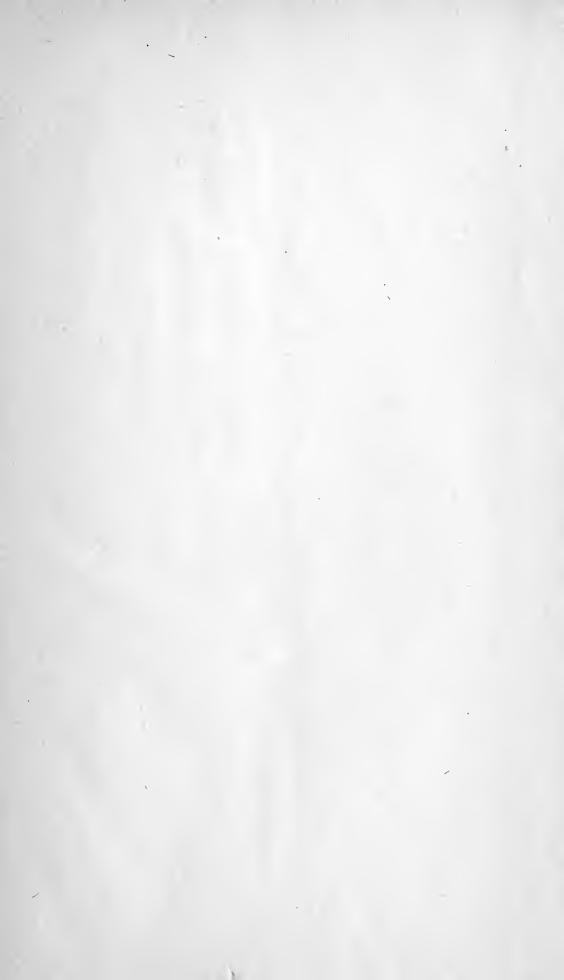
John Tracy, a young man employed in building 115 Congress street, stepped backwards into the elevator well and fell on to the car, which was descending. Slightly injured.

A person, unknown, mistook the door to elevator of 106 Union street for front entrance to 110 Union street; opening the door, he walked into the elevator-way and fell to the cellar

floor below. Slightly injured.

July 12, 1881.—While Thomas Roach and Richard Powers were descending from the fifth story in the elevator in building Nos. 141 and 143 Richmond street, the car fell three stories. The men were not seriously injured.





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